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Your attention is invited

**NEWS
OF THE
STRUCTURAL
DIVISION
OF
ASCE**



**JOURNAL OF THE STRUCTURAL DIVISION
PROCEEDINGS OF THE AMERICAN SOCIETY OF CIVIL ENGINEERS**

DIVISION ACTIVITIES

STRUCTURAL DIVISION

Proceedings of the American Society of Civil Engineers

NEWS

September, 1958

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EXECUTIVE COMMITTEE

Chairman: Leo H. Corning

Members: George S. Vincent, Myle J. Holley Jr., Robert D. Dewell, Elmer K. Timby

A meeting of the Executive Committee was held in Portland, Oregon on June 21-24, 1958. Some of the highlights of that meeting were as follows:

A resolution was adopted calling for the establishment of committees within each local section of the Society on convention participation and attendance. Their assignment would be to carry on a continuing effort, through personal contacts with members and in such other ways as may be devised, to attain an immediate goal of 100 percent increase in attendance at conventions. The A.S.C.E. Committee on Division Activities is currently considering this resolution.

A resolution was adopted requesting the establishment of a plan for contributions by members of the Society to an A.S.C.E. Fund for Basic Research in Engineering Sciences. At the same time the Board of Direction is requested to establish a plan for matching contributions by industry in such ratio as the Board may decide. The plan is to be on a continuing basis and to

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provide funds to be equally divided between basic research and applied research. In passing this resolution the committee was motivated by two main ideas; increased knowledge created from basic research would be of great benefit to the profession and secondly, funds in substantial amount would be necessary to carry out the proposed research activities of the Society.

The Committee on Cooperation with Local Sections and the Committee on Division Activities in the Building Field were discharged. The Executive Committee expressed its thanks and appreciation for the services rendered to the Structural Division by the members of these two committees. The Committee on Division Activities in the Building Field was not a working technical committee; its purpose was to study and report on procedures and activities that the Structural Division might undertake in the building field. From a study of this committee's report, it is anticipated that the Executive Committee will form a new working technical committee.

NEW TASK COMMITTEES

The following task committees were approved by the Executive Committee and sent to the Committee on Division Activities for their approval.

A) Committee on Wood

Task Committee on Distribution of Loadings to Timber Bridge Elements

B) Committee on Metals

Task Committee on Bolted and Riveted Joints, A. L. R. Sanders, Chairman

Task Committee on Columns, B. Johnston, Chairman

Task Committee on Plastic Design, T. R. Higgins, Chairman

Task Committee on Welded Connections, L. Grover, Chairman

The main purpose of the four new committees is to maintain liaison with the appropriate research councils that are actively at work and which are developing recommendations that will be of practical interest to structural engineers. Unfortunately, much of this information does not find a direct route to members of the Structural Division of ASCE and, it will be the function of these committees to see that the work of such groups as the Research Council on Riveted and Bolted Joints, the Column Research Council, and the Welding Research Council are brought before the membership.

C) Committee on Electronic Computation

Task Committee on Educational Aspects of Electronic Computation

Task Committee on Program Interchange

COMMITTEE ON MASONRY AND REINFORCED CONCRETE

A) Task Committee on Folded Plate Construction

Under the leadership of Professor L. C. Maugh, the Control Group of this Task Committee met in Ann Arbor, Michigan, on July 21 to consider material which had been prepared for the preliminary report on this type of construction. Among the topics to be included are:

Classification and Examples of Folded Plate Construction
Structural Behavior
Methods of Analysis for Prismatic Folded Plate Structures
Design and Details
Special Stress and Construction Problems

Considerable discussion was given to design aspects such as the size and spacing of reinforcing steel, the recalculation of compressive stress based upon a cracked section, and the calculation of shear and diagonal tension stresses, especially near columns.

Besides the chairman, the Control Group consists of T. C. Kavanagh, M. S. Ketchum, W. A. Renner, and Howard Simpson.

B) Administrative Committee

The Administrative Committee of the Committee on Masonry and Reinforced Concrete has announced a meeting at the Palmer House in Chicago for Thursday, September 4, at 9:00 a.m. At this time all task committee operations will be reviewed and plans will be mapped for the coming year.

This meeting customarily follows the meeting of the Reinforced Concrete Research Council which has been set for September 3 at the same place.

COMMITTEE ON ELECTRONIC COMPUTATION

Plans are being readied for the Conference on Electronic Computation, to be held in Kansas City, Missouri, November 20-21, 1958. The Conference will be sponsored jointly by the Kansas City Section and the Committee on Electronic Computation of the Structural Division.

As a result of notices in the Structural Division Journal and CIVIL ENGINEERING, abstracts of a large number of proposed papers have been received. Several additional speakers were invited by the reviewing committee to submit papers. The final program will be assembled after all the papers have been reviewed, and will appear in the October issue of CIVIL ENGINEERING. An effort is being made to assemble papers on all levels of engineering work affected by electronic computers, and thus provide valuable information for design engineers, engineering administrators and engineers engaged in actual programming alike, regardless whether they are novices or "old hands" at computer applications. For this reason, concurrent sessions are being planned.

Some of the sessions in the planning stage include:

Outstanding applications of computers in structural analysis, design and research

Numerical methods: matrix analysis of structures

Advanced numerical methods and their relation to design

Programming and coding of structural problems

Organization of computer groups in engineering offices

The Kansas City Section is acting as host and is in charge of financial arrangements. There will be group luncheons each day and a social hour Thursday afternoon. Arrangements are being made with computer manufacturers for exhibits and demonstrations during the Conference. The possibility

of the manufacturers providing half-hour introductory seminars in the evenings is being investigated.

Over a hundred replies to the committee's questionnaire have been received to date. If you have developed or used computer programs for structural applications, the Committee would appreciate receiving information about the programs. Copies of the questionnaire are available from the Secretary, Steven J. Fenves, 203 Civil Engineering Hall, University of Illinois, Urbana, Illinois.

JOINT A.S.C.E. - I.A.B.S.E. MEETING

The highlight of the Society's Annual Convention, scheduled for New York City in October, will be the week long meeting sponsored by the Structural and Engineering Mechanics Division of the A.S.C.E. and the International Association for Bridge and Structural Engineering. The Construction Division joins in co-sponsoring two of the sessions. The technical sessions will feature papers by experts from nine different countries in the field of structural engineering.

This meeting is the result of two years of planning. Let's make this meeting a success by filling everyone of the thousand seats made available for the meeting. If you have not already done so, slip and send in now the coupon at the end of this Newsletter to show you expect to be there and that you will attend the Society luncheon, Tuesday, October 14.

Details of the meeting, as well as the full program, were published in the July Structural Division Newsletter. The following issues of CIVIL ENGINEERING should be consulted by those expecting to attend the Convention.

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| July | - ASCE Annual Convention feature International Conference - page 70
Article on the work of the I.A.B.S.E. by Frank Baron - page 72
Division Doings - page 75 |
| August and September | - Complete details of the ASCE-IABSE meeting including photographs and biographical sketches of the speakers and synopses of the papers. |
| September | - Full Convention program including all technical sessions and social activities. |

FUTURE CONVENTION PLANS

Plans for the Los Angeles Convention in February 1959 are nearly complete. David M. Wilson, Structural Division Local Chairman on Session Programs reports that there will be five technical sessions on the theme Plasticity in Structural Design.

Carl L. Erb, Jr. is the Structural Division Local Chairman on Session Programs for the Cleveland, Ohio Convention in May 1959. The program for this meeting is now under consideration by the Executive Committee.

Robert A. Hechtman has been appointed Structural Division Local Chairman on Session Programs for the Washington, D. C. Convention in October 1959. The program for this meeting is also beginning to take shape.

STRUCTURAL DIVISION JOURNAL

In order to adequately serve the members of the Structural Division the Committee on Publications has decided to put the Journal on a monthly schedule beginning with the September issue. News items should be submitted to the Division Newsletter Editor before the 25th of the second month preceding the month of issue. Comments on and suggestions for the improvement of the Newsletter will be appreciated.

Gerard F. Fox, Newsletter Editor
Howard, Needles, Tammen & Bergendoff
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New York 7, New York

ADVANCE INFORMATION ON ATTENDANCE
JOINT MEETING ASCE AND IABSE

ASCE CONVENTION, NEW YORK, OCTOBER 13-17, 1958

I plan to attend sessions

Mon. Tues. Thur. Fri.

Do you plan to attend the ASCE-IABSE Luncheon on Tuesday?

Yes No

Send to Professor James Michalos, Chairman
Department of Civil Engineering, New York University
University Heights, New York 53, New York

Signature _____

